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WO 2004/094045 A1

## (54) Title: METHOD OF DECOMPOSING NITROGEN DIOXIDE

(57) Abstract: A method of decomposing nitrogen dioxide to nitrogen monoxide in an exhaust gas of a lean-burn internal combustion engine, such as a diesel engine, comprises adjusting the C<sub>1</sub> hydrocarbon : nitrogen oxides (C<sub>1</sub> HC:NO<sub>x</sub>) ratio of the exhaust gas to from 0.1 to 2 and contacting this exhaust gas mixture with a particulate acidic refractory oxide selected from the group consisting of zeolites, tungsten-doped titania, silica-titania, zirconia-titania, gamma-alumina, amorphous silica-alumina and mixtures of any two or more thereof and passing the effluent gas to atmosphere.